

Title (en)

METHOD FOR PRODUCING LONG FIBER-REINFORCED THERMOPLASTIC RESIN COMPOSITION

Title (de)

VERFAHREN ZUM HERSTELLEN VON LANGFASERVERSTÄRKTEN HARZZUSAMMENSETZUNGEN

Title (fr)

PROCEDE DE FABRICATION D'UNE COMPOSITION DE RESINE THERMOPLASTIQUE RENFORCEE PAR DES FIBRES LONGUES

Publication

EP 0783957 A4 19971022 (EN)

Application

EP 94924389 A 19940819

Priority

JP 9401370 W 19940819

Abstract (en)

[origin: EP0783957A1] A method for producing long fiber-reinforced thermoplastic resin composition for promoting the impregnation of fused thermoplastic resin discharged against a bundle of fibers which are opened in a web form so as to cover the same into and between the web-form fibers without damaging the fibers and mixing of deteriorated resin in an impregnated product comprising the steps of allowing a bundle of continuous fibers which are opened in a web form to pass through a covering die having a resin discharge port, covering at least one of upper and lower sides of the web-form bundle of continuous fibers with fused thermoplastic resin discharged from the resin discharge port, and, in an impregnation process comprising a plurality of bars set vertically in such a manner that the portions which are in contact with the web-form bundle of continuous fibers are substantially horizontal and that their longitudinal direction is perpendicular to the axial direction of the fibers, pulling in the web-form bundle of continuous fibers which is so covered substantially horizontally from the rear so as to bring it into contact with the bars at the top and bottom sides thereof, to thereby impregnate the bundle with fused thermoplastic resin. <IMAGE>

IPC 1-7

B29C 70/50

IPC 8 full level

B29B 15/12 (2006.01); **B29C 70/06** (2006.01); **B29K 101/12** (2006.01); **B29K 105/08** (2006.01)

CPC (source: EP US)

B29B 15/122 (2013.01 - EP US)

Citation (search report)

- [XY] EP 0320653 A2 19890621 - GEN ELECTRIC [US]
- See references of WO 9605956A1

Cited by

EP3470196A1; WO2019076653A1

Designated contracting state (EPC)

BE CH DE FR GB IT LI SE

DOCDB simple family (publication)

EP 0783957 A1 19970716; EP 0783957 A4 19971022; EP 0783957 B1 20020123; DE 69429736 D1 20020314; DE 69429736 T2 20020829; JP H0732495 A 19950203; KR 960705099 A 19961009; US 5788908 A 19980804; WO 9605956 A1 19960229

DOCDB simple family (application)

EP 94924389 A 19940819; DE 69429736 T 19940819; JP 20286693 A 19930723; JP 9401370 W 19940819; KR 19960706025 A 19951229; US 67617196 A 19960715